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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/750,688	01/02/2001	Masashi Hachinota	Q62534	8185	
7:	7590 06/07/2004			EXAMINER	
SUGHRUE, MION, ZINN, MACPEAK & SEAS			VOLPER, THOMAS E		
2100 Pennsylvania Avenue, N.W. Washington, DC 20037		ART UNIT	PAPER NUMBER		
washington, D	C 20037		2665	- I	
			DATE MAILED: 06/07/2004	<i>,</i> 6	

Please find below and/or attached an Office communication concerning this application or proceeding.

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•	Application No.	Applicant(s)			
sa) ·	09/750,688	HACHINOTA, MASASHI			
Office Action Summary	Examiner	Art Unit			
	Thomas Volper	2665			
The MAILING DATE of this communication appeared for Reply	pears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPI THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repuly one of the period for reply specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by stature than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	. 136(a). In no event, however, may a reply be tile ply within the statutory minimum of thirty (30) day d will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE	mely filed ys will be considered timely. the mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on					
	is action is non-final.				
closed in accordance with the practice under	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4) ⊠ Claim(s) 1-6 is/are pending in the application 4a) Of the above claim(s) is/are withdres 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-6 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/	awn from consideration.				
Application Papers					
9) The specification is objected to by the Examir	ner.				
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the	• ,	, i			
Replacement drawing sheet(s) including the corre					
Priority under 35 U.S.C. § 119					
a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documer 2. ☐ Certified copies of the priority documer 3. ☐ Copies of the certified copies of the pri application from the International Bure. * See the attached detailed Office action for a list	nts have been received. nts have been received in Applicat ority documents have been receiv au (PCT Rule 17.2(a)).	tion No red in this National Stage			
Attachment(s)					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 	4) Interview Summar Paper No(s)/Mail D				
 2) Ποτίτεο οτ Draftsperson's Patent Drawing Review (PTO-948) 3) Σ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 3-5. 		Patent Application (PTO-152)			

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DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's admitted prior art in view of Iliadis et al. (US 5,742,606).

Regarding claims 1 and 6, Applicant's admitted prior art (AAPA) discloses switching equipment that includes M input line buffers, an MxN crossbar type switch for switching cells based on a cross point on/off control signal, N output lines sections and an arbiter that outputs a connection permission signal to one of said input line buffers based on connection request signals outputted from said M input line buffers and outputs said cross point on/off control signal to said MxN crossbar type switch (pages 1 and 2 of the Specification; Fig. 1). AAPA fails to expressly disclose sending the connection permission signal at a designated slower timing interval than a normal timing interval to one input line buffer that outputs cells to an external output line whose output line rate is slower than a corresponding input line rate. Iliadis discloses

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a packet switch wherein if an output buffer for a particular output line enters an overflow state, i.e. the output line rate is slower than the input line rate, an interruption is triggered for the transmitting input for a time period T, rather than simply retrying the transmission in the next switch cycle (col. 4, lines 1-20 and lines 32-44). This meets the limitation of a slower timing interval than a normal timing interval for sending packets from one input line buffer to a corresponding output line. At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use this interrupt feature of Iliadis in the arbiter of the system provided by AAPA. One of ordinary skill in the art would have been motivated to do this in order to prevent the output line buffer from losing packets due to overflow.

Regarding claim 2, the previous paragraph discloses that all the functions of claim 2 are present in the arbiter of the combination of AAPA in view of Iliadis.

Regarding claim 3, Iliadis discloses an interruption triggered by backpressure from the output buffer (col. 4, lines 1-11), which meets the limitation of a mask signal, and that a signal is given after time T (col. 4, lines 15-16), which meets the limitation of a mask cancellation signal.

Regarding claim 4, Iliadis discloses that the time period T is a multiple of one switch cycle (col. 4, lines 15-20). A switch cycle represents the normal timing interval.

Regarding claim 5, AAPA discloses M input line buffers comprising N FIFOs, a distributor and a selector (pages 1 and 2 of the Specification).

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Conclusion

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4. Any inquiry concerning this communication, or earlier communications from the examiner should be directed to Thomas Volper whose telephone number is 703-305-8405 and fax number is 703-746-9467. The examiner can normally be reached between 8:30am and 6:00pm M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu, can be reached at 703-308-6602. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-4750.

Thomas E. Volper

TON

May 28, 2004

HUY D. VU

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600